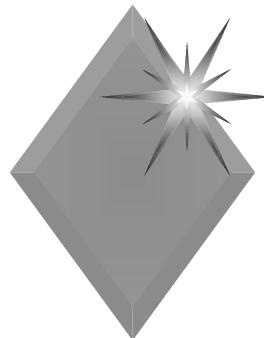


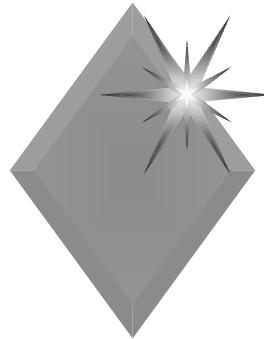
IGEX-98: Sponsoring Associations

- ◆ International Coordination of Space Techniques for Geodesy and Geodynamics (CSTG, IAG Commission VIII)
- ◆ International GPS Service (IGS)
- ◆ Institute of Navigation (ION)
- ◆ International Earth Rotation Service (IERS)



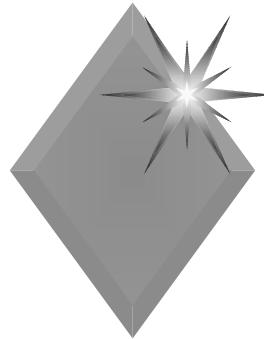
IGEX-98: Purpose

- ◆ First global GLONASS campaign for geodetic and geodynamic applications
- ◆ Campaign duration: 3 months
September 20 - December 20, 1998
- ◆ Simulation of an operational environment
- ◆ Evaluation in an international workshop in 1999



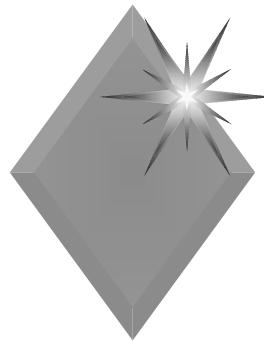
IGEX-98: Main Objectives (1)

- ◆ Set up of a global GLONASS tracking receiver network
- ◆ Test GLONASS data processing software
- ◆ GLONASS orbits < 1 m accuracy
- ◆ Orbit modelling
- ◆ Study common GPS/GLONASS processing strategies
- ◆ Transformation parameters to ITRF



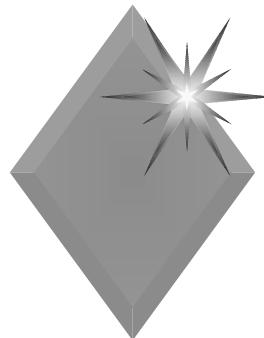
IGEX-98: Main Objectives (2)

- ◆ Connect GPS and GLONASS time systems
- ◆ Compare receiver equipment performance
- ◆ Compare and contrast the separate and combined satellite systems
- ◆ Cooperate with Russian agencies
- ◆ Engage SLR community to evaluate GLONASS orbit accuracy



IGEX-98: Organization

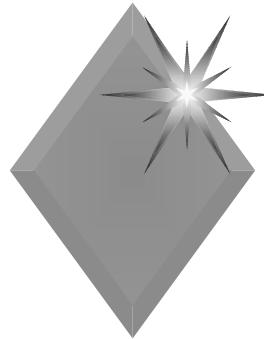
- ◆ Steering committee
 - ◆ Pascal Willis (IGN, chairman)
 - ◆ Gerhard Beutler (AIUB, CSTG)
 - ◆ Werner Gurtner (AIUB, SLR liaison)
 - ◆ Ruth Neilan (JPL, IGS Central Bureau)
 - ◆ Guenther Hein (UFAF, Munich)
 - ◆ Jim Slater (NIMA)
- ◆ Broad-based Organizing Committee will be formed later



IGEX-98: Call for Participation

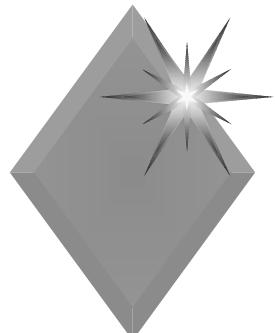
- ◆ Observing Sites: GLONASS, mixed GPS/GLONASS, dual freq, collocated with IGS/ILRS/VLBI (ITRF) site
- ◆ Data Centers
- ◆ Data Analysis Groups
- ◆ Evaluation Groups

- ◆ Proposal due: May 29, 1998



ILRS contributions (1)

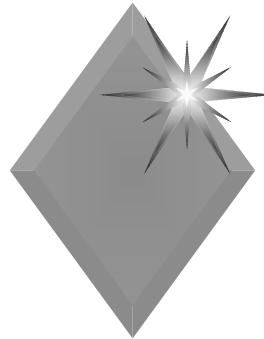
- ◆ GLONASS SLR tracking:
 - ◆ How many satellites?
 - ◆ Which ones?
 - ◆ How dense?
 - ◆ What stations? (day, night)
 - ◆ Tracking priority?
 - ◆ Predictions (IRV generation)?
 - ◆ Permission needed?



GLONASS Constellation Status (April 14, 1998)

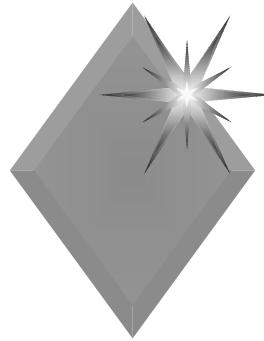
GLONASS number	Cosmos number	Plane/ slot	Frequency channel	Launch date	Intro date	Status
758	2275	3/18	10	11.04.94	04.09.94	operating
760	2276	3/17	24	11.04.94	18.05.94	operating
767	2287	2/12	22	11.08.94	07.09.94	operating
770	2288	2/14	9	11.08.94	04.09.94	unusable
775	2289	2/16	22	11.08.94	07.09.94	operating
762	2294	1/4	12	20.11.94	11.12.94	operating
763	2295	1/3	21	20.11.94	15.12.94	operating
764	2296	1/6	13	20.11.94	16.12.94	operating
765	2307	3/20	1	07.03.95	30.03.95	operating
766	2308	3/22	10	07.03.95	05.04.95	operating
780	2316	2/15	4	24.07.95	26.08.95	operating
781	2317	2/10	9	24.07.95	22.08.95	operating
785	2318	2/11	4	24.07.95	22.08.95	operating
776	2323	2/9	6	14.12.95	07.01.96	operating
778	2324	2/9	11	14.12.95		
782	2325	2/13	6	14.12.95	18.01.96	operating

What about 771?



IGEX-98: SLR Tracking

- ◆ All GLONASS satellites
- ◆ All of plane 1 (62,63,64, good night-time tracking) plus 67 [2], 71 [?]
- ◆ Only 67,71
(plus 65 [3] , 66 [3]: IRVs available?)
- ◆ Need feedback from analysis centers
(both SLR and GPS/GLONASS)



ILRS contributions (2)

- ◆ GLONASS orbit computation
 - ◆ SLR-based analysis centers to compute
 - ◆ SLR-derived orbits
 - ◆ SLR/microwave combined orbits
 - ◆ Comparison between orbits
- ◆ Network performance analysis